

APPENDIX D – AIR QUALITY PERMIT

DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF AIR QUALITY

Michael O. Leavitt
Governor
Dianne R. Nielson, Ph.D.
Executive Director
Richard W. Sprott
Director

150 North 1950 West
P.O. Box 144820
Salt Lake City, Utah 84114-4820
(801) 536-4000 Voice
(801) 536-4099 Fax
(801) 536-4414 T.D.D.
Web: www.deq.state.ut.us

DAQE-105-02

February 14, 2002

Paul Glauser
Jack B. Parson Company
P.O. Box 3429
Ogden, Utah 84409

Dear Mr. Glauser:

Re: Approval Order for Rocky Point Aggregate Processing Plant
Weber County, CDS-B, NSPS, Title V
Project Code: N2323-001

The attached document is an Approval Order for the above-referenced project.

Future correspondence on this Approval Order should include the engineer's name as well as the DAQE number as shown on the upper right-hand corner of this letter. Please direct any technical questions you may have on this project to Mr. Jon Black. He may be reached at (801) 536-4047.

Sincerely,

Richard W. Sprott, Executive Secretary
Utah Air Quality Board

RWS:JB:re

cc: Weber-Morgan Health Department
Mike Owens, EPA Region VIII

Randy Marriott
Rocky Point Aggregate Processing Plant
4250 N 1700 W.
Pleasant View, UT 84414

STATE OF UTAH

Department of Environmental Quality

Division of Air Quality

APPROVAL ORDER: ROCKY POINT AGGREGATE PROCESSING PLANT

Prepared By: Jon L. Black, Engineer
Email: jblack@deq.state.ut.us
Phone: (801) 536-4047, SLC Office
(801) 371-1106, Provo Office

APPROVAL NUMBER

DAQE-105-02

Date: February 14, 2002

Jack B. Parson Company

Source Contact
Paul Glauser
(801) 409-2494

Richard W. Sprott
Executive Secretary
Utah Air Quality Board

Abstract

Randy Marriott has submitted a Notice of Intent (NOI) for a sand and gravel crushing operation at the Rocky Point Pit. The operation will use one jaw crusher, three cone crushers, three triple deck screens, one 1200 H.P. diesel generator, and various support equipment. The operation is located in Pleasant View, Utah, and considered to impact both Weber and Box Elder counties. Both counties are in attainment for all criteria pollutants. New Source Performance Standards (NSPS) Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants regulations and Title V regulations apply to this source. National Emission Standards for Hazardous Air Pollutants (NESHAP) and Maximum Available Control Technology (MACT) regulations do not apply to this source. The emissions in tons per year (tpy) from this operation will be: PM₁₀, 4.92 tpy, NO_x, 16.76 tpy, SO₂, 2.65 tpy, CO, 4.02 tpy, VOC, 0.70 tpy, HAPs, 0.05 tpy.

The project has been evaluated and found to be consistent with the requirements of the Utah Administrative Code Rule 307 (UAC R307). A 30-day public comment period was held in accordance with UAC R307-401-4 and no comments were received. This air quality Approval Order (AO) authorizes the project with the following conditions, and failure to comply with any of the conditions may constitute a violation of this order.

General Conditions:

1. This Approval Order (AO) applies to the following company:

Site Office

Rocky Point Pit
4250 North 1700 West
Pleasant View, Utah 84414
Phone Number NA
Fax Number NA

Corporate Office Location

Marriott Construction
4960 West 2200 North
Ogden, Utah 84404
Phone Number (801) 731-7252
Fax Number (801) 731-1008

The equipment listed in this AO shall be operated at the following location:

PLANT LOCATION:

4250 North 1700 West, Pleasant View, Utah 84414
Weber and Box Elder Counties

UNIVERSAL TRANSVERSE MERCATOR (UTM) COORDINATE SYSTEM:

4,577.4 km. Northing, 414.8 km. Easting, Zone 12, UTM Datum NAD 27

2. Definitions of terms, abbreviations, and references used in this AO conform to those used in the Utah Administrative Code Rule 307 (UAC R307), and Series 40 of the Code of Federal Regulations (40 CFR). These definitions take precedence, unless specifically defined otherwise herein.
3. The limits set forth in this AO shall not be exceeded without prior approval in accordance with R307-401.

4. Modifications to the equipment or processes approved by this AO that could affect the emissions covered by this AO must be approved in accordance with R307-401-1.
5. All records referenced in this AO or in applicable NSPS standards, which are required to be kept by the owner/operator, shall be made available to the Executive Secretary or Executive Secretary's representative upon request, and the records shall include the two-year period prior to the date of the request. Records shall be kept for the following minimum periods:
 - A. Emission inventories Five years from the due date of each emission statement or until the next inventory is due, whichever is longer.
 - B. All other records Two years.
6. Randy Marriott shall install and operate the equipment at Rocky Point Pit in accordance with the terms and conditions of this AO, which was written pursuant to the NOI submitted to the Division of Air Quality (DAQ) on December 7, 1999 and additional information submitted to the Executive Secretary dated May 4, 2000, July 3, 2001 and November 1, 2001.
7. The approved installation shall consist of the following equipment or equivalent, where the Executive Secretary shall determine equivalency:
 - A. One (1) Jaw Crusher, 500 ton/hr
 - B. Three (3) Cone Crusher, 500 ton/hr
 - C. Three (3) Triple Deck Screens, 500 ton/hr
 - D. One (1) 1200 Horsepower Diesel Generator
 - E. Twelve (12) Conveyors
 - F. Four (4) Stackers
 - G. Various support equipment, such as stockpiles, bins, sand screw, water pumps, water trucks, etc.
8. Randy Marriott shall notify the Executive Secretary in writing when the installation of the equipment listed in Condition #7 has been completed and is operational, as an initial compliance inspection is required. To insure proper credit when notifying the Executive Secretary, send your correspondence to the Executive Secretary, attn: Compliance Section.

If installation has not been completed within eighteen months from the date of this AO, the Executive Secretary shall be notified in writing on the status of the installation. At that time, the Executive Secretary shall require documentation of the continuous installation of the operation and may revoke the AO in accordance with R307-401-11.

Limitations and Tests Procedures

9. Visible emissions from the following emission points shall not exceed the following values:
 - A. All crushers - 15% opacity
 - B. All screens - 10% opacity
 - C. All conveyor transfer points - 10% opacity
 - D. All diesel engines - 20% opacity

- E. Conveyor drop points - 20% opacity
- F. Storage Piles - 10% opacity
- G. All other points - 20% opacity

Opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9.

For sources that are subject to NSPS, opacity shall be determined by conducting observations in accordance with 40 CFR 60.11(b) and 40 CFR 60, Appendix A, Method 9.

- 10. Visible fugitive dust emissions from haul-road traffic and mobile equipment in operational areas shall not exceed 20% opacity. Visible emissions determinations for traffic sources shall use procedures similar to Method 9. The normal requirement for observations to be made at 15 second intervals over a six minute period, however, shall not apply. Six points, distributed along the length of the haul road or in the operational area, shall be chosen by the Executive Secretary or the Executive Secretary's representative. An opacity reading shall be made at each point when a vehicle passes the selected points. Opacity readings shall be made $\frac{1}{2}$ vehicle length or greater behind the vehicle and at approximately $\frac{1}{2}$ the height of the vehicle or greater. The accumulated six readings shall be averaged for the compliance value.
- 11. The following production limits shall not be exceeded:
 - A. 500,000 tons of material produced per rolling 12-month period
 - B. 500 tons of material produced per hour based on a 24-hour average
 - C. 17 hours of operation per day

To determine compliance with a rolling 12-month total the owner/operator shall calculate a new 12-month total by the twentieth day of each month using data from the previous 12 months. Records of production shall be kept for all periods when the plant is in operation. Production shall be determined by operators logs, truck scale records or vendor receipts. The records of production shall be kept on a daily basis. Hours of operation shall be determined by supervisor monitoring and maintaining of an operations log.

Roads and Fugitive Dust

- 12. Randy Marriott shall abide by a fugitive dust control plan acceptable to the Executive Secretary for control of all dust sources associated with the Rocky Point Pit. Randy Marriott shall submit a fugitive dust control plan to the Executive Secretary, attention: Compliance Section, for approval within 30 days of the date of this AO. This plan shall contain sufficient controls to prevent an increase in PM_{10} emissions above those modeled for this AO. The limitations and conditions in the fugitive dust control plan shall not be changed.

The haul road length, speed or any other parameter used to calculate emissions shall not be increased above the limits established in the fugitive dust control plan. The haul road speed shall be posted.

13. All unpaved roads and other unpaved operational areas that are used by mobile equipment shall be water sprayed and/or chemically treated to control fugitive dust. Treatment shall be of sufficient frequency and quantity to maintain the surface material in a damp/moist condition or unless it is below freezing. The opacity shall not exceed 20% during all times the areas are in use. If chemical treatment is to be used, the plan must be approved by the Executive Secretary. Records of water and/or chemical treatment shall be kept for all periods when the plant is in operation. The records shall include the following items:

- A. Date
- B. Number of treatments made, dilution ratio, and quantity
- C. Rainfall received, if any, and approximate amount
- D. Time of day treatments were made

14. The haul road limitations shall be:

- A. Haul road length of 0.11 miles
- B. Speed limit of 10 miles per hour

The haul road speed shall be posted, at a minimum, on site at the beginning of the haul road so that it is clearly visible from the haul road.

15. Control of disturbed areas and storage piles are required at all times (24 hours per day every day) for the duration of the project/operation until the area is reclaimed.

16. Water sprays or chemical dust suppression sprays shall be installed at the following points to control fugitive emissions:

- A. All crushers
- B. All screens
- C. All conveyor transfer points

The sprays shall operate whenever dry conditions warrant or as determined necessary by the Executive Secretary.

Fuels

17. The owner/operator shall use #1 or #2 diesel fuel as a primary fuel in diesel engines.
18. The sulfur content of any fuel oil or diesel burned shall not exceed 0.5 percent by weight for diesel fuels consumed in all other equipment. The sulfur content shall be determined by ASTM Method D-4294-89 or approved equivalent. Certification of fuels shall be either by Randy Marriott's own testing or test reports from the fuel marketer.

Federal Limitations and Requirements

19. In addition to the requirements of this AO, all applicable provisions of 40 CFR 60, New Source Performance Standards (NSPS) Subpart A, and OOO, 40 CFR 60.1 to 60.18 and 40 CFR 60.670 to 60.676 (Standards of Performance for Nonmetallic Mineral Processing Plants) apply to this site.

Records & Miscellaneous

20. At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any equipment approved under this Approval Order including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. All maintenance performed on equipment authorized by this AO shall be recorded, and the records shall be maintained for a period of two years.
21. The owner/operator shall comply with R307-150 Series. Inventories, Testing and Monitoring.
22. The owner/operator shall comply with R307-107. General Requirements: Unavoidable Breakdowns.

The Executive Secretary shall be notified in writing if the company is sold or changes its name.

This AO in no way releases the owner or operator from any liability for compliance with all other applicable federal, state, and local regulations including R307.

A copy of the rules, regulations and/or attachments addressed in this AO may be obtained by contacting the Division of Air Quality. The Utah Administrative Code R307 rules used by DAQ, the Notice of Intent (NOI) guide, and other air quality documents and forms may also be obtained on the Internet at the following web site:

http://www.eq.state.ut.us/eqair/aq_home.htm

The Potential To Emit (PTE) emissions for the entire plant are currently calculated at the following values:

	<u>Pollutant</u>	<u>Tons/yr</u>
A.	PM ₁₀	4.92
B.	SO ₂	2.65
C.	NO _x	16.76
D.	CO	4.02
E.	VOC	0.70
F.	HAPs (Aldehydes).....	0.05

Approved By:

Richard W. Sprott, Executive Secretary
Utah Air Quality Board